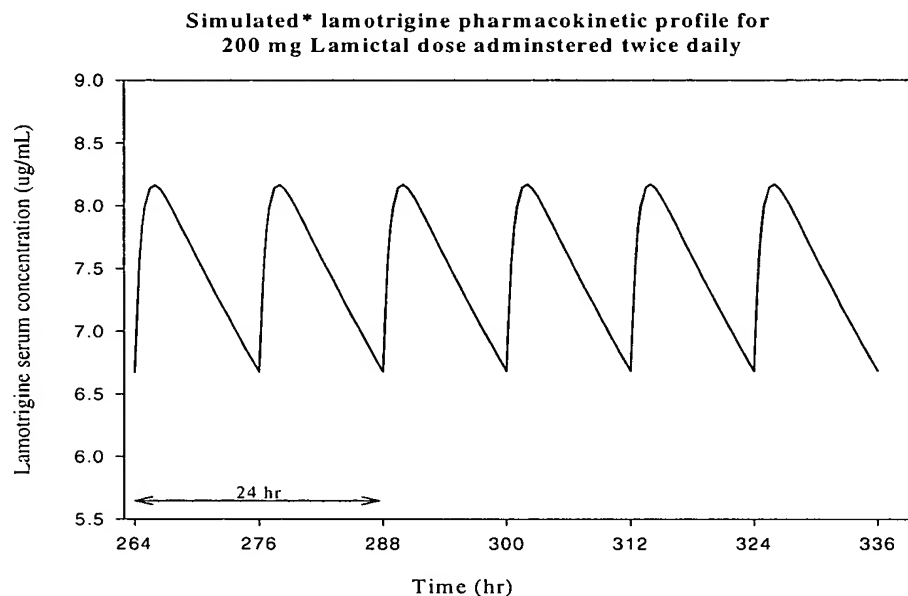


Figure 1: Simulated lamotrigine pharmacokinetic profile for 200mg lamotrigine (Lamictal™) dose administered twice daily.



*Simulated profile over a 12 hr interval agrees closely
with that observed in healthy volunteers

Figure 2: Dissolution profile of three different batches of lamotrigine (Lamictal™) 150mg tablets.

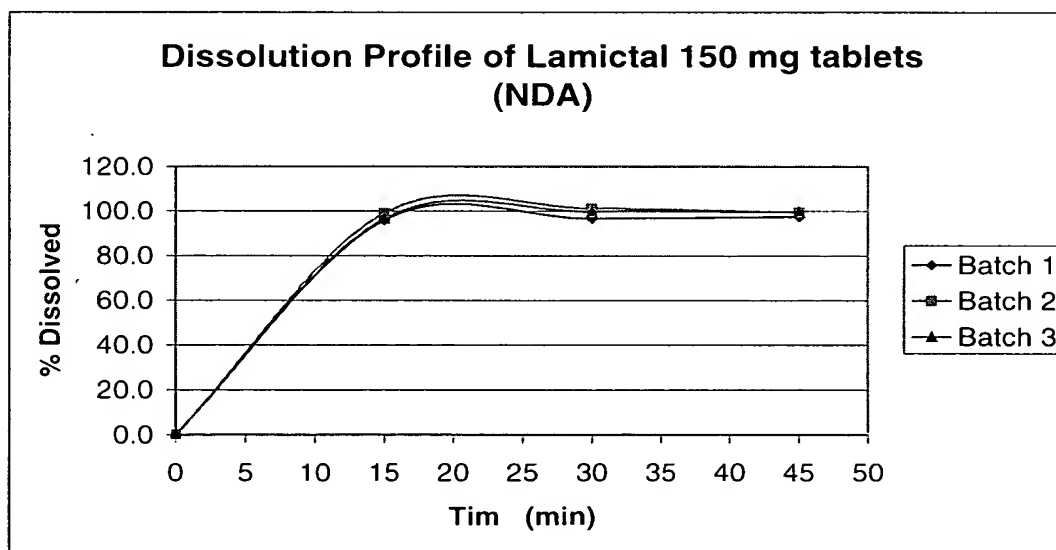


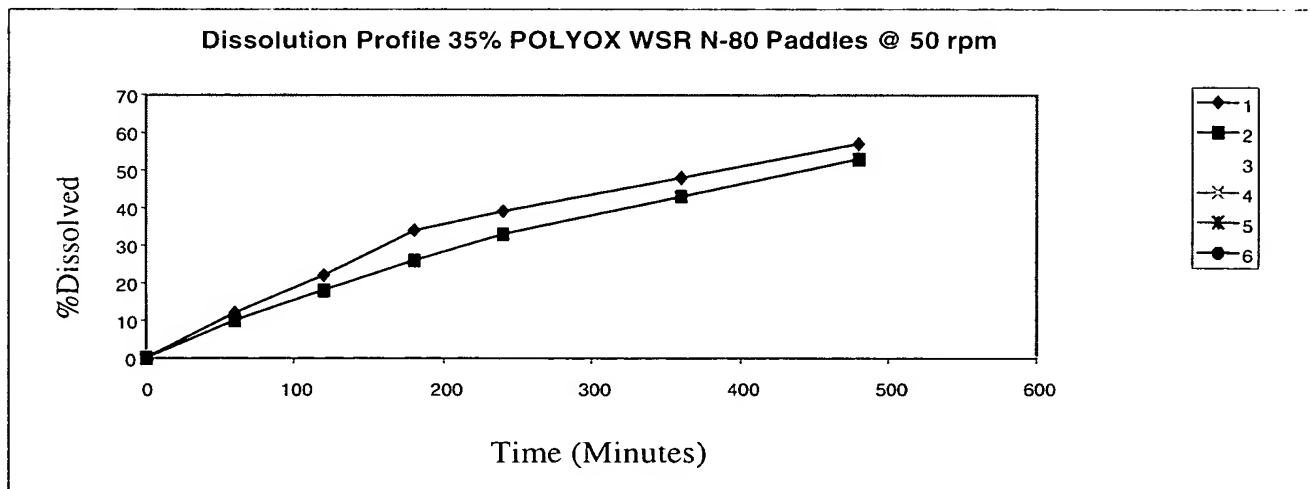
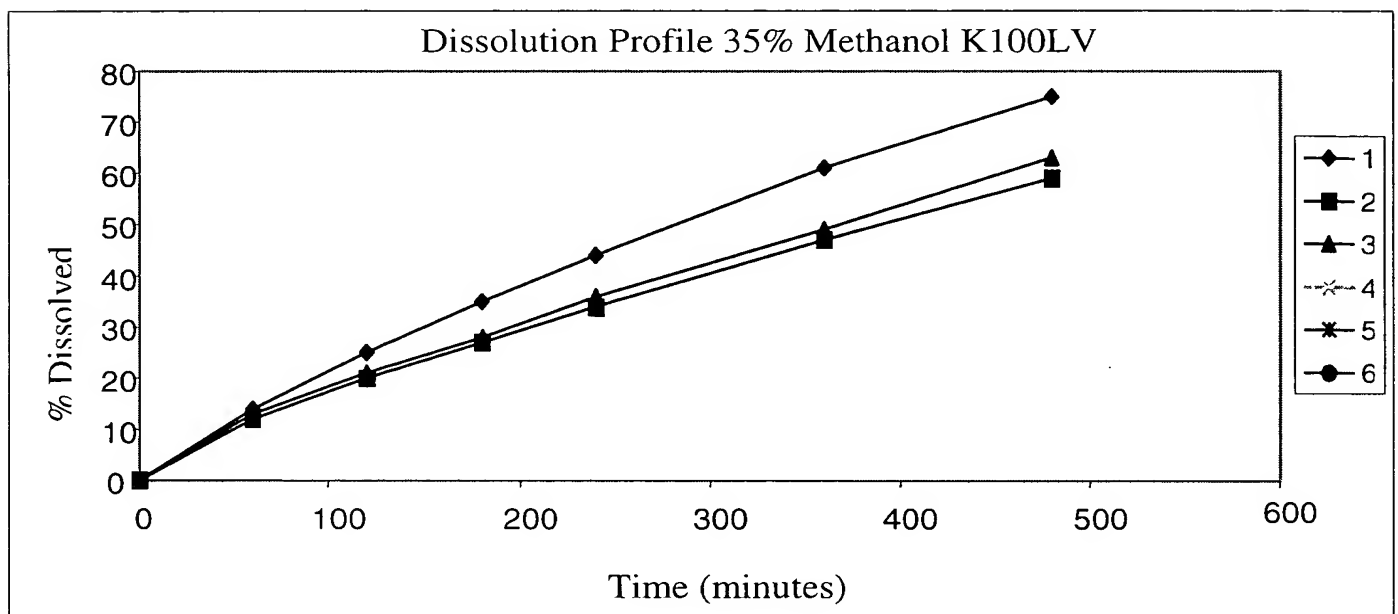
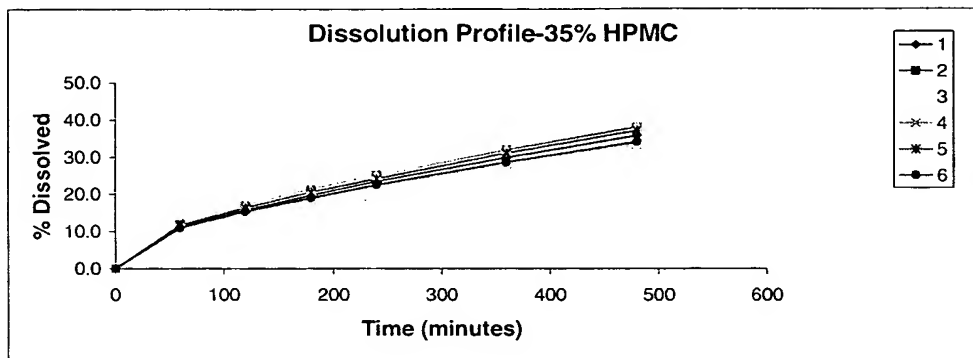
Figure 3a: Matrix Tablet From Example 1 with 35% Polymer

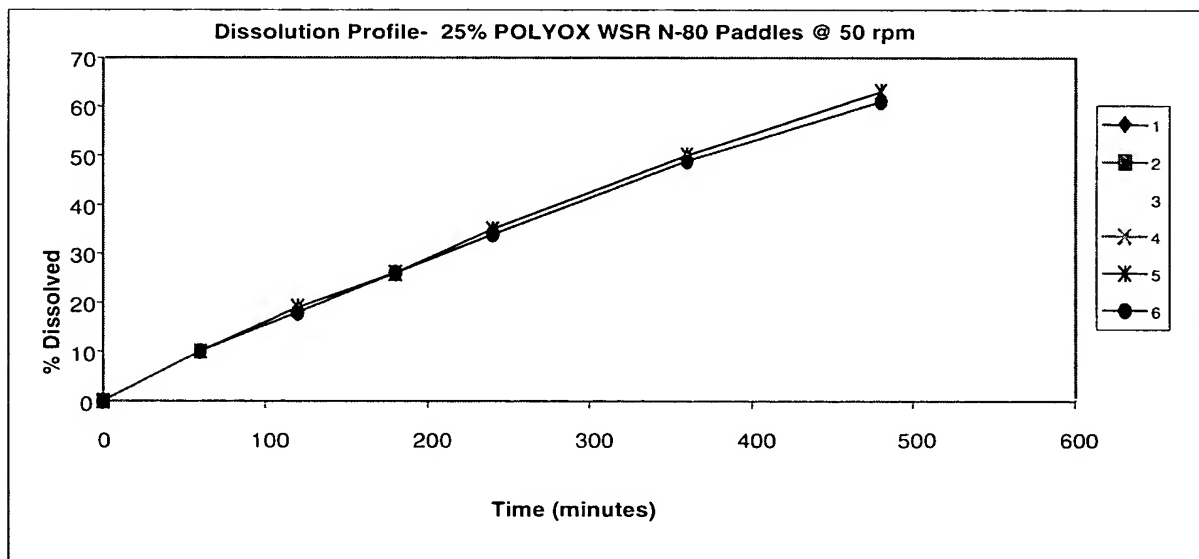
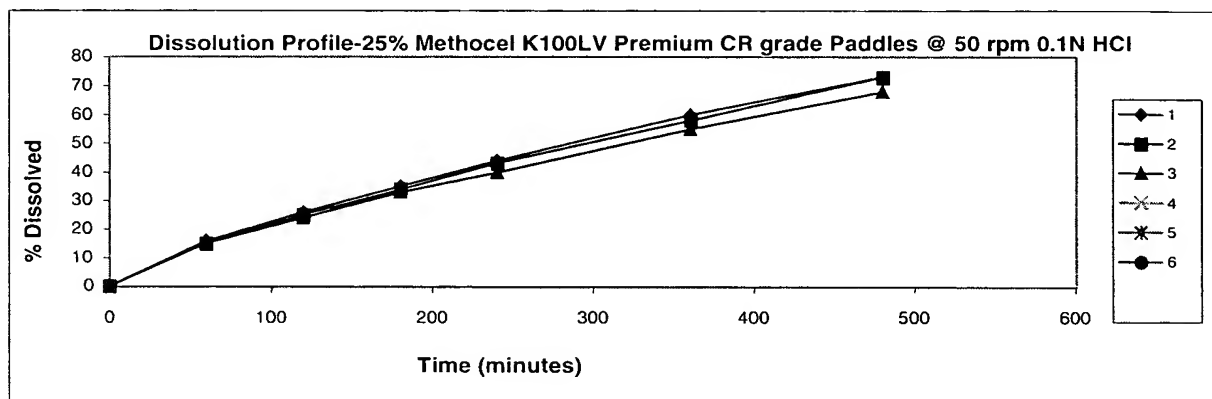
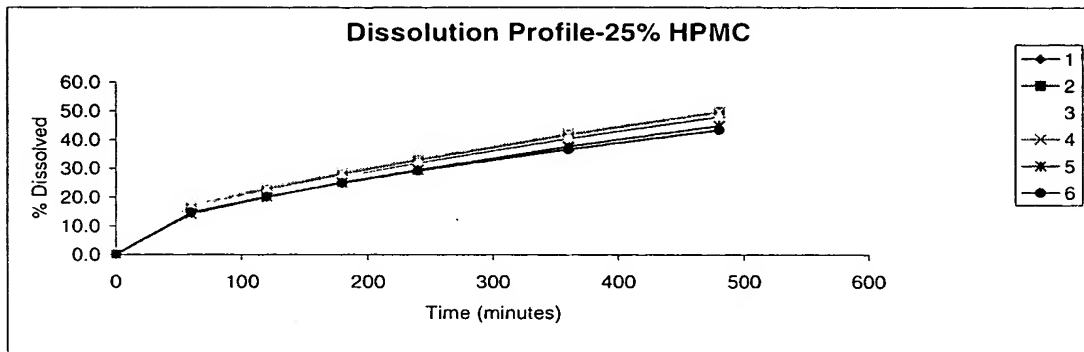
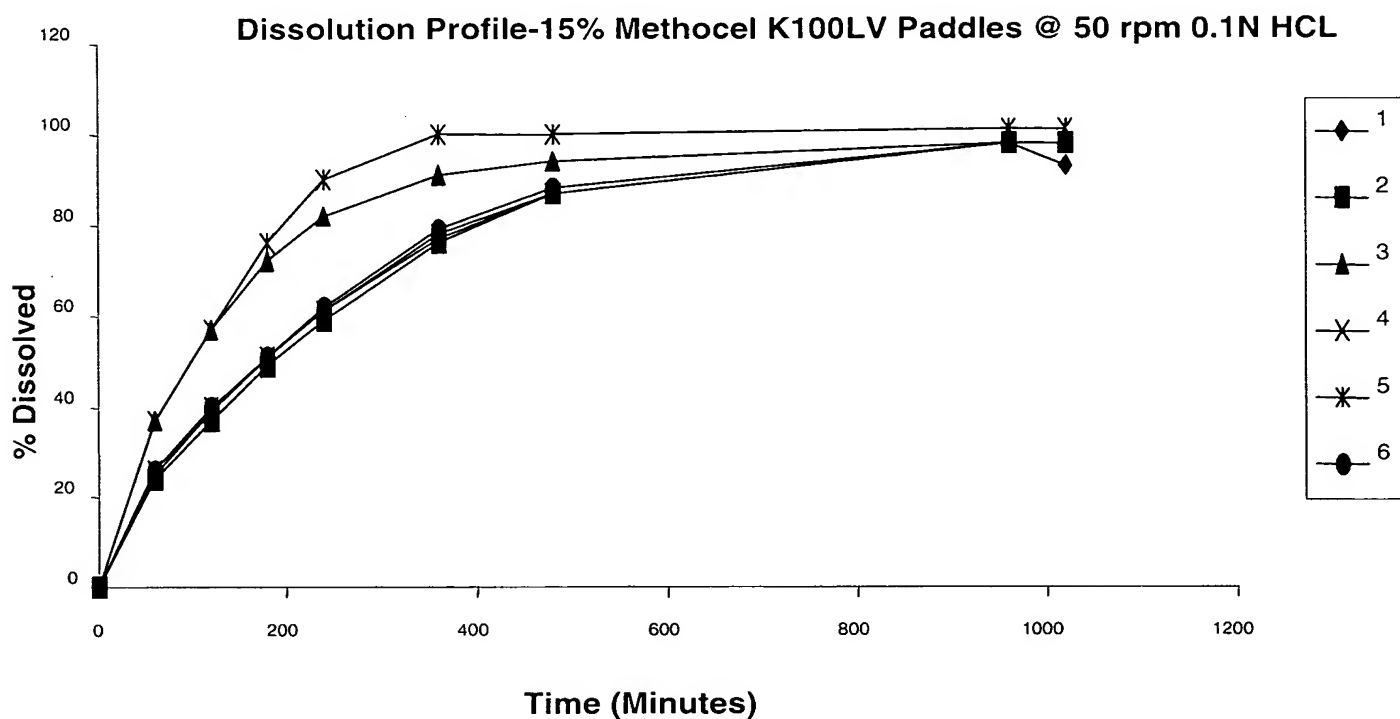
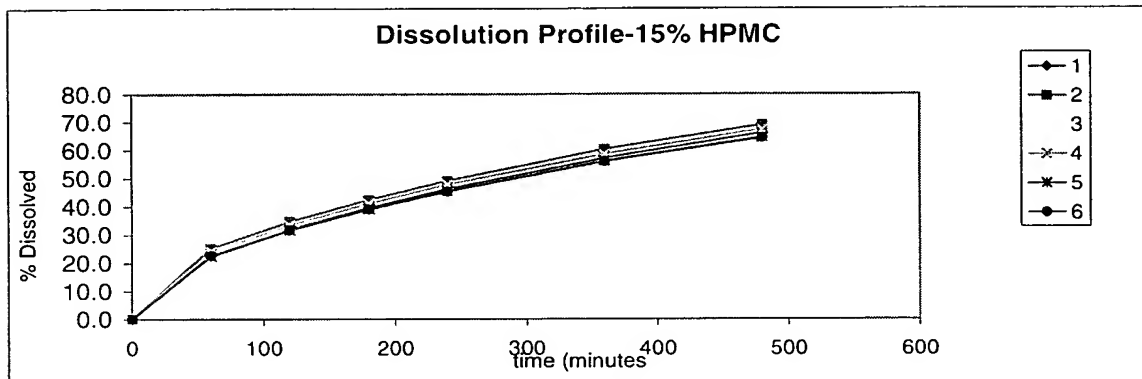
Figure 3b) Matrix Tablets from Example 1 with 25% polymer

Figure 3c) Matrix tablets from Example 1 with 15% polymer

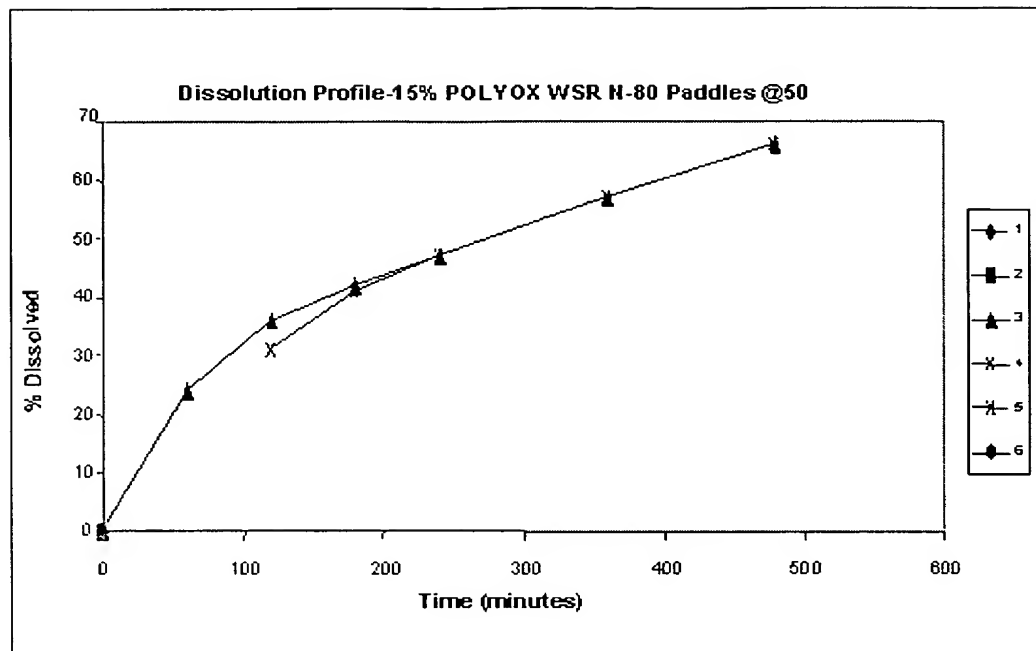
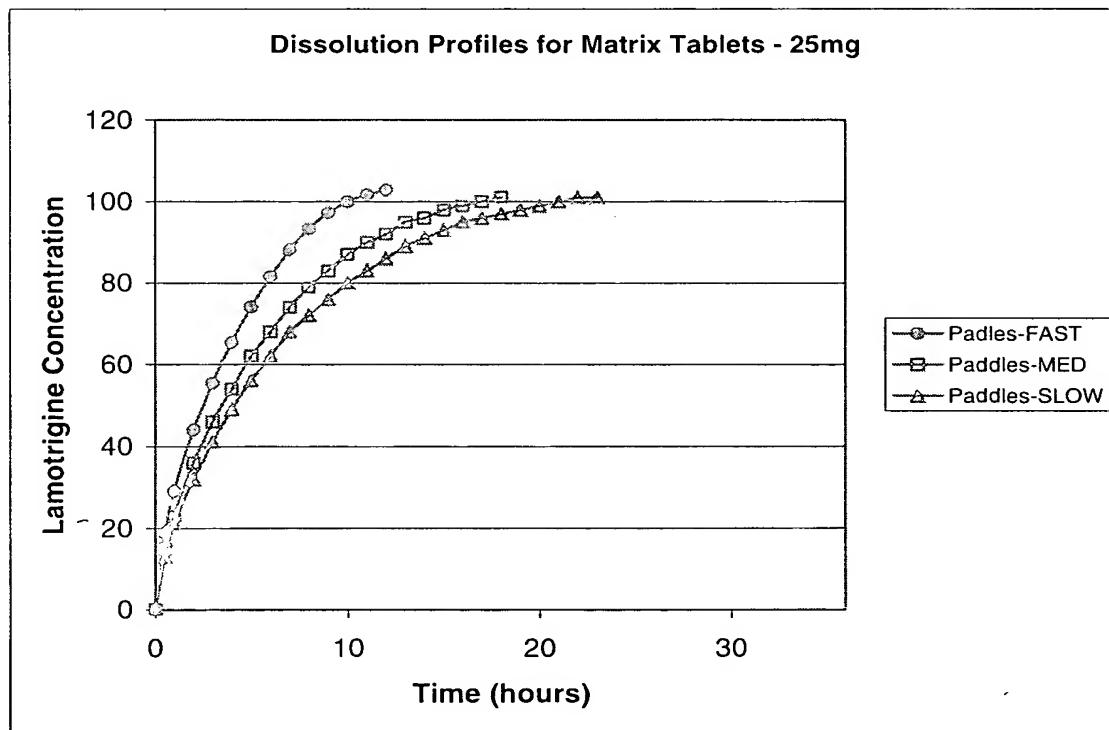
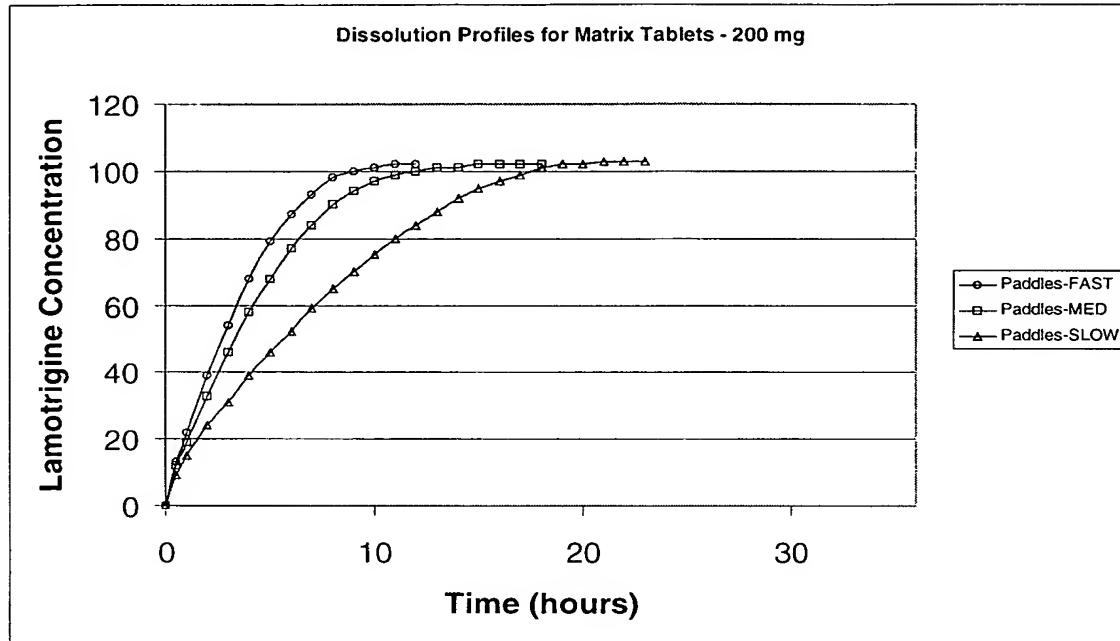


Figure 4. Dissolution profile from the matrix tablet of Example 2b.



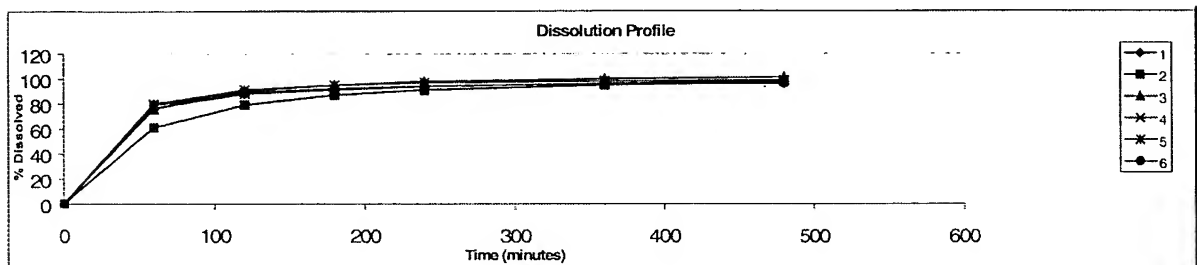
"Paddles" indicates the dissolution method, Fast/medium/slow indicate the release rates as set out in the table in Example 2b



"Paddles" indicates the dissolution method, Fast/medium/slow indicate the release rates as set out in the table in Example 2b

Figure 5: Dissolution Profile for tablets of Example 3 with 3% and 5% weight gain with a 80% Surelease, 20% Opadry coating.

Lamotrigine Sustained Release
80% Surelease 20% Opadry 3% weight gain



Lamotrigine Sustained Release
80% Surelease 20% Opadry 5 % weight gain

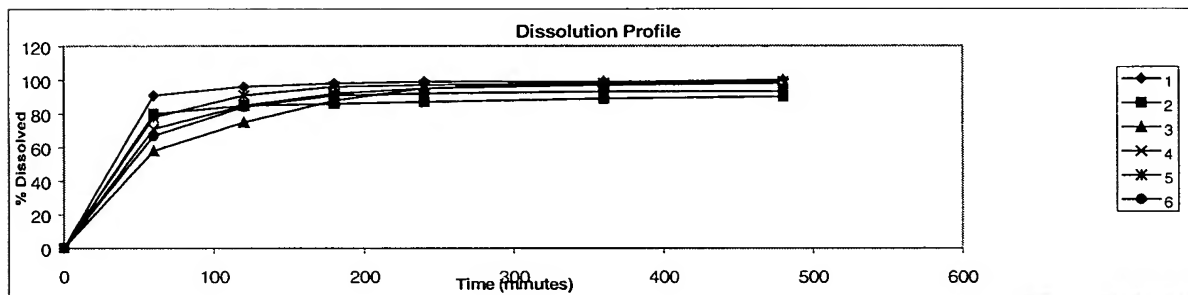
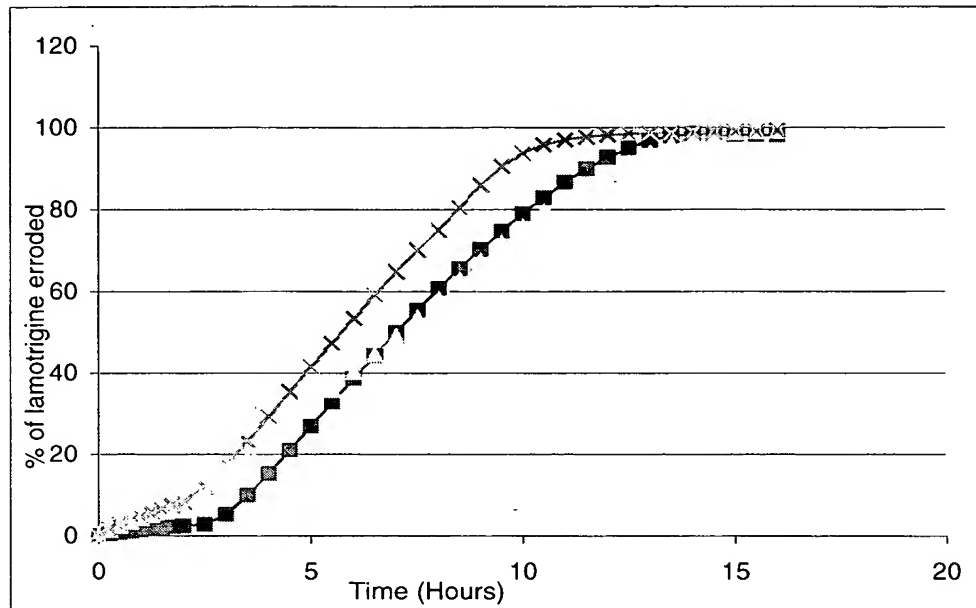


Figure 6: Dissolution profile of lamotrigine DiffCORE tablets 25 mg and 200mg of Example 4



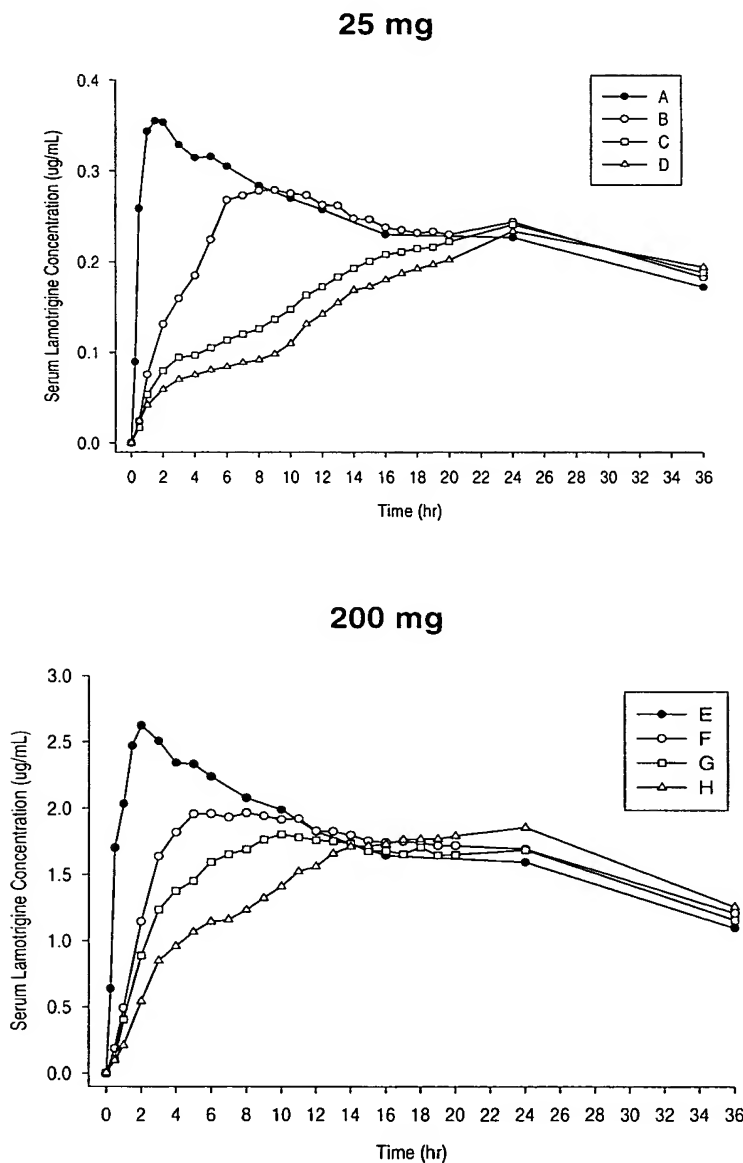
X – represents 25mg fast

▲ - represents 25 mg slow

■ - represents 200mg slow

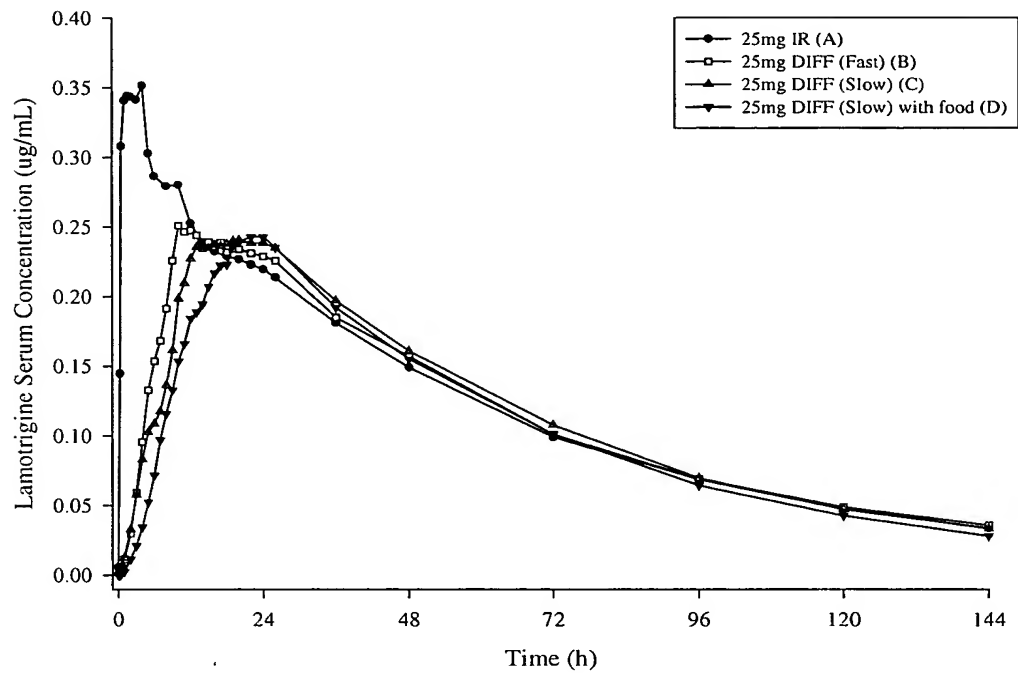
Figure 7:

Serum lamotrigine Concentration over a 0 – 36 hour period for 25mg and 200mg matrix tablets of lamotrigine (Example 2) compared with the standard commercially available instant release (IR) tablets.



A	LAMICTAL IR 25mg	E	LAMICTAL IR 200mg
B	LAMICTAL 25 mg matrix tablet - fast release -6 hour	F	LAMICTAL 200 mg matrix tablet – fast release - 6hr release rate
C	LAMICTAL 25mg matrix tablet - medium release rate - 12hr release rate	G	LAMICTAL 200mg matrix tablet – medium release rate -12hr release rate
D	LAMICTAL 25mg matrix tablet – slow – release rate - 16hr release rate	H	LAMICTAL 200mg matrix tablet – slow release rate- 16hr release rate

Figure 8: Mean serum lamotrigine concentration-time profiles from the study of Example 7 for the 25mg tablets from Example 4.



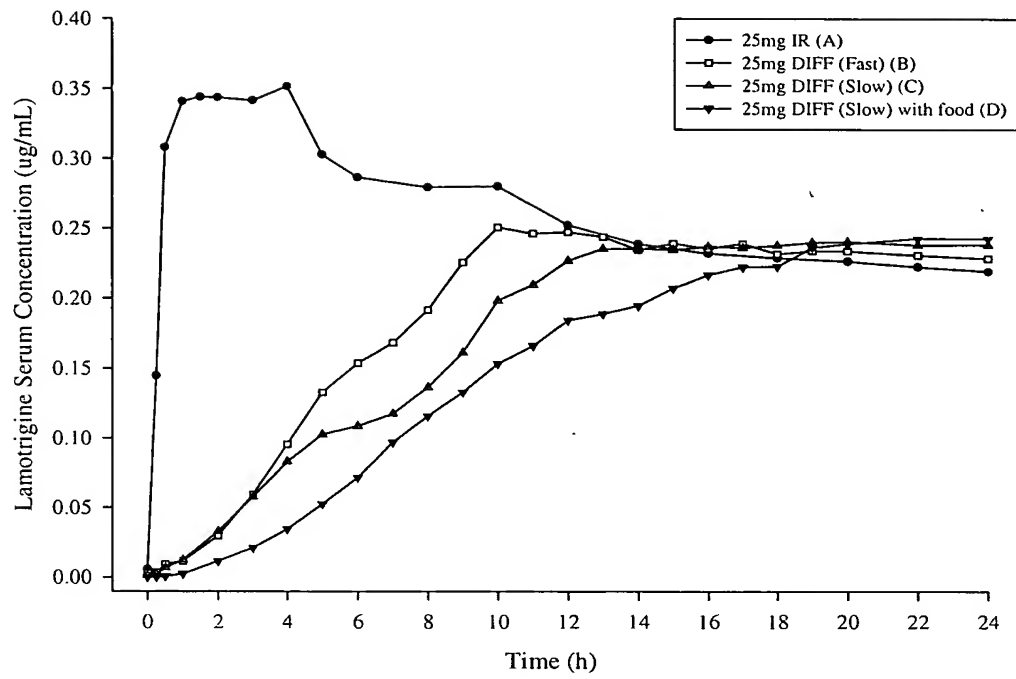


Figure 9 : 200mg IR profile from study outlined in Example 6 and profile of the 200mg DiffCORE tablets from Example 4 from study outlined in Example 7.

